AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) An information recording apparatus comprising:

inputting means for inputting enciphered contents information;

contents information deciphering means for deciphering the enciphered contents information;

access position extracting means for extracting recording medium access positions from the deciphered contents information;

management information creating means for ~~extracting the access positions for said contents information inputted and for~~ creating management information that includes the recording medium access positions from the deciphered contents information; ~~showing one or more access positions for said contents information~~; and

recording ~~writing~~ means for recording ~~writing said~~ the enciphered contents information on a first area of a recording medium, ~~inputted and said management~~ recording information for enciphering the contents information on a second area of the recording medium, and recording management information on a third area of the recording medium. ~~on a recording medium.~~

2. (Original) The information recording apparatus according to claim 1 wherein said management information shows the access positions for the contents information by means of time information of such contents information and addresses on the recording medium.

3. (Original) The information recording apparatus according to claim 2 wherein said contents information is inputted in the form of the transport streams prescribed by the MPEG 2 systems, and wherein

said management information shows the access positions for said contents information by means of the time stamps for said transport streams and addresses on the recording medium.

4. (Original) The information recording apparatus according to claim 1 wherein, as access positions described in the management information, positions where random accesses are possible to said contents information are extracted.

5. (Original) The information recording apparatus according to claim 4 wherein said contents information is inputted in the form of the transport streams prescribed by the MPEG 2 systems; and wherein

for the access positions described in said management information, transport packets each containing a sequence header code are extracted.

6. (Currently Amended) An information reproducing apparatus comprising:

reading means for reading contents information and management information from a recording medium; ~~in which said contents information and said management information showing one or more access positions for said contents information are recorded;~~ and

reading position controlling means for controlling the reading positions of the ~~said~~ contents information on ~~said~~ the recording medium based on ~~said~~ the management information read from ~~said~~ the recording medium[[.]] ;

wherein the contents information is enciphered; and

wherein the management information includes recording medium access positions previously extracted from the deciphered contents information.

7. (Original) The information reproducing apparatus according to claim 6 wherein said management information shows the access positions for the contents information by means of time information of the contents information and addresses on the recording medium.

8. (Original) The information reproducing apparatus according to claim 7 wherein said contents information is recorded on the recording medium in the form of transport streams prescribed by the MPEG 2 systems; and

said management information shows the access positions for said contents information by means of the time stamps of said transport stream and addresses on the recording medium.

9. (Original) The information reproducing apparatus according to claim 6 wherein, as access positions described in said management information, positions where random accesses to said contents information are available are shown.

10. (Original) The information reproducing apparatus according to claim 9 wherein, said contents information is inputted in the form of transport streams prescribed by the MPEG 2 systems; and wherein

as access positions described in said management information, transport packets each containing a sequence header code are shown.

11. (Currently Amended) An information recording/reproducing apparatus comprising:

inputting means for inputting enciphered contents information;

contents information deciphering means for deciphering the enciphered contents information;

access position extracting means for extracting recording medium access positions from the deciphered contents information;

management information creating means for ~~extracting the access positions for said contents information inputted and for~~ creating management information that includes the recording medium access positions from the deciphered contents information; ~~showing one or more access positions for said contents information~~;

recording means for recording ~~said~~ the enciphered contents information on a first area of a recording medium, ~~inputted and said management~~ recording information for enciphering the contents information on a second area of the recording medium, and recording management information on a third area of the recording medium. ~~from said recording medium;~~

reading means for reading ~~said~~ the contents information and ~~said~~ the management information from ~~said~~ the recording medium; and

reading position controlling means for controlling the reading positions of the ~~said~~ contents information on ~~said~~ the recording medium based on ~~said~~ the management information read from ~~said~~ the recording medium.

12. (Original) The information recording/reproducing apparatus according to claim 11 wherein said management information shows the access positions for contents information by means of the time information of the contents information and addresses on the recording medium.

13. (Original) The information recording/reproducing apparatus according to claim 12 wherein said contents information is inputted in the form of the transport streams prescribed by the MPEG 2 systems; and

said management information shows the access positions for said contents information by means of the time stamps of said transport streams and addresses on the recording medium.

14. (Original) The information recording/reproducing apparatus according to claim 11 wherein, as access positions described in said management information, positions where random accesses for said contents information are possible are extracted.

15. (Original) The information recording/reproducing apparatus according to claim 14 wherein said contents information is inputted in the form of the transport streams prescribed by the MPEG 2 systems; and wherein

for the access positions described in said management information, transport packets each containing a sequence header code are extracted.

16. (Currently Amended) An information recording method comprising the steps of:

inputting enciphered contents information;

deciphering the contents information;

extracting recording medium access positions from the deciphered contents information; ~~for said contents information inputted~~;

creating management information that includes the recording medium access positions from the deciphered contents information; ~~showing one or more access positions for said contents information~~; and

recording the enciphered contents information on a first area of a recording medium, recording information for enciphering the contents information on a second area of the recording medium, and recording management information on a third area of the recording medium.

~~writing said contents information inputted and said management information on the recording medium.~~

17. (Original) The information recording method according to claim 16 wherein, said management information shows the access positions for contents information by means of the time information for the contents information and the addresses on the recording medium.

18. (Original) The information recording method according to claim 17 wherein, said contents information is inputted in the form of transport streams prescribed by the MPEG 2 systems; and wherein

said management information shows the access positions for said contents information by means of the time stamps for said transport stream and the addresses on the recording medium.

19. (Original) The information recording method according to claim 16 wherein, as access positions described in said management information, positions where random accesses are possible for said contents information are extracted.

20. (Original) The information recording method according to claim 19 wherein, said contents information is inputted in the form of the transport streams prescribed by the MPEG 2 systems; and

as access positions described in said management information, transport packets each containing a sequence header code are extracted.

21. (Currently Amended) An information reproducing method comprising the steps of:

reading contents information and management information from a recording medium; ~~on which said contents information and said management information showing one or more access positions for said contents information;~~ and

controlling the reading positions of ~~said~~ the contents information on ~~said~~ the recording medium based on ~~said~~ the management information read from ~~said~~ the recording medium[[.]] ;

wherein the contents information is enciphered; and

wherein the management information includes recording medium access positions previously extracted from the deciphered contents information.

22. (Original) The information reproducing method according to claim 21 wherein, said management information shows the access positions for contents information by means of the time information for contents information and the addresses on the recording medium.

23. (Original) The information reproducing method according to claim 22 wherein, said contents information is recorded on a recording medium in the form of transport streams prescribed by the MPEG 2 systems; and wherein

said management information shows the access positions for said contents information by means of the time stamps of said transport streams and the addresses on the recording medium.

24. (Original) The information reproducing method according to claim 21 wherein, as access positions described in said management information, positions where random accesses to said contents information are possible are shown.

25. (Original) The information reproducing method according to claim 24 wherein, said contents information is inputted in the form of transport streams prescribed by the MPEG 2 systems; and

as access positions described in said management information, transport packets each containing a sequence header code are indicated.

26. (Currently Amended) An information recording/reproducing method comprising the steps of:

during the recording process:

inputting enciphered contents information;

deciphering the contents information;

extracting recording medium access positions from the deciphered contents information;

creating management information that includes the recording medium access positions from the deciphered contents information; and

recording the enciphered contents information on a first area of a recording medium, recording information for enciphering the contents information on a second

area of the recording medium, and recording management information on a third area of the recording medium.

~~, inputting contents information, extracting the access positions for said contents information inputted, creating management information showing one or more access positions for said contents information, and writing said contents information inputted and said management information on the recording medium; and~~

during the reproducing process:

reading contents information and management information from the recording medium; and

controlling the reading positions of the contents information on the recording medium based on the management information read from the recording medium;

wherein the contents information is enciphered; and

wherein the management information includes recording medium access positions previously extracted from the deciphered contents information.

~~, reading said contents information and said management information from said recording medium, and controlling the reading positions of said contents information on said recording medium based on said management information read from said recording medium.~~

27. (Original) The information recording/reproducing method according to claim 26 wherein, said management information shows the access positions for contents information by means of the time information for the contents information and the addresses on the recording medium.

28. (Original) The information recording/reproducing method according to claim 27 wherein, said contents information is inputted in the form of transport streams prescribed by the MPEG 2 systems; and wherein

said management information shows the access positions for said contents information by means of the time stamps of said transport stream and the addresses on the recording medium.

29. (Original) The information recording/reproducing method according to claim 26 wherein, as access positions described in said management information, positions where random accesses to said contents information are possible are extracted.

30. (Original) The information recording/reproducing method according to claim 29 wherein, said contents information is inputted in the form of the transport streams prescribed by the MPEG 2 systems; and

as access positions described in said management information, transport packets each containing a sequence header code are extracted.

31. (Currently Amended) A recording medium wherein the following are recorded: [[,]]

enciphered contents information, and

processor readable management information that includes instructions for causing the processor to access positions on the recording medium. ~~extracted from said contents information and showing one or more access positions for this contents information are recorded.~~

32. (Canceled)

33. (Currently Amended) The information recording apparatus according to claim 1 [[32]] further comprising:

receiving means for receiving enciphered contents information and cipher keys used to encipher ~~said~~ the contents information transmitted from other apparatuses by means of communication means; and

cipher key enciphering means for creating enciphered cipher keys obtained by enciphering cipher keys received by ~~said~~ the receiving means by the first cipher key, and wherein

~~said~~ the contents information ~~decoding~~ deciphering means uses the received cipher key to ~~decode~~ decipher the enciphered contents information received to obtain contents information; and

~~said~~ the recording means records ~~said~~ the enciphered cipher keys on ~~said~~ the recording medium as information for enciphering ~~said~~ the contents information.

34. (Currently Amended) The information recording apparatus according to claim 1 [[33]] further comprising:

first cipher key creating means for ~~deciding~~ choosing the first cipher key used to encipher ~~said~~ the cipher key by using recording medium identification information read from ~~said~~ the recording medium.

35. (Currently Amended) The information recording apparatus according to claim 1 [[33]] further comprising:

first cipher key creating means for ~~deciding~~ choosing the first cipher key used to encipher ~~said~~ the cipher key; and

second cipher key creating means for ~~deciding~~ choosing the second cipher key used to encipher the first cipher key by using the recording medium identification information read from ~~said~~ the recording medium.

36. (Currently Amended) The information recording apparatus according to claim 1 [[33]] further comprising:

second cipher key creating means for ~~deciding~~ choosing the second cipher key used to ~~decode~~ decipher the first cipher key enciphered and read from ~~said~~ the recording medium based on the recording medium identification information read from the ~~said~~ the recording medium; and

~~the~~ first cipher key ~~decoding~~ deciphering means for ~~decoding~~ deciphering the first cipher key enciphered by using ~~said~~ the second cipher key created,

wherein ~~said~~ the cipher key enciphering means enciphers the cipher keys received from ~~said~~ the receiving means by using ~~said~~ the first cipher key.

37. (Currently Amended) The information recording apparatus according to claim 1 [[32]] further comprising:

receiving means for receiving enciphered contents information and the cipher keys used to encipher ~~said~~ the contents information transmitted from other apparatuses by means of communication means;

cipher key creating information creating means for creating cipher key creating information used to create cipher keys based on the cipher keys received from ~~said~~ the receiving means; and

cipher key creating information creating means for creating enciphered cipher key creating information obtained by enciphering by the first cipher key ~~said~~ the cipher key creating information created, and wherein

~~said~~ the contents information ~~decoding~~ deciphering means ~~decodes~~ deciphers the enciphered contents information received by means of cipher keys received to restore contents information; and wherein

~~said~~ the recording means records ~~said~~ the enciphered cipher key creating information on ~~said~~ the recording medium as information for enciphering ~~said~~ the contents information.

38. (Currently Amended) The information recording apparatus according to claim 1 [[32]] wherein, ~~said~~ the management information shows the access positions for contents information by means of the time information for contents information and the addresses on the recording medium.

39. (Currently Amended) The information recording apparatus according to claim 1 [[38]] wherein, ~~said~~ the contents information is inputted in the form of transport streams prescribed by the MPEG 2 systems; and

~~said~~ the management information shows the access positions for ~~said~~ the contents information by means of the time stamps of ~~said~~ the transport streams and the addresses on the recording medium.

40. (Currently Amended) The information recording apparatus according to claim 1 [[32]] wherein, as access positions described in ~~said~~ the management information, positions where random accesses for ~~said~~ the contents information are possible are extracted.

41. (Currently Amended) The information recording apparatus according to claim 1 [[40]] wherein,

~~said~~ the contents information is inputted in the form of transport streams prescribed by the MPEG 2 systems; and

for the access positions described in ~~said~~ the management information, transport packets each containing a sequence header code are extracted.

42. (Canceled)

43. (Currently Amended) The information recording apparatus according to claim 6 [[42]] wherein, ~~said~~ the recording medium contains an enciphered cipher key obtained by enciphering the cipher key used for enciphering contents information as information for enciphering ~~said~~ the contents information, and further comprising:

cipher key ~~decoding~~ deciphering means for ~~decoding~~ deciphering ~~said~~ the enciphered cipher key by means of the first cipher key.

44. (Currently Amended) The information reproducing apparatus according to claim 6 [[43]] further comprising:

first cipher key creating means for ~~deciding~~ choosing the first cipher key used to ~~decode~~ decipher ~~said~~ the cipher key by ~~said~~ the cipher key ~~decoding~~ deciphering means using the recording medium identification information read from ~~said~~ the recording medium.

45. (Currently Amended) The information reproducing apparatus according to claim 6 [[43]] further comprising:

first cipher key ~~decoding~~ deciphering means for ~~decoding~~ deciphering the first cipher key used to ~~decode~~ decipher ~~said~~ the cipher key using the second cipher key; and

second cipher key creating means for ~~deciding~~ choosing the second cipher key used to ~~decode~~ decipher ~~said~~ the first cipher key by means of the recording medium identification information read from ~~said~~ the recording medium.

46. (Currently Amended) The information reproducing apparatus according to claim 6 [[43]] further comprising:

second cipher key creating means for ~~deciding~~ choosing the second cipher key used to ~~decode~~ decipher the first enciphered cipher key read from ~~said~~ the recording medium based on the recording medium identification information read from ~~said~~ the recording medium; and

first cipher key ~~decoding~~ deciphering means for ~~decoding~~ deciphering ~~said~~ the first cipher key enciphered by means of ~~said~~ the second cipher key created.

47. (Currently Amended) The information reproducing apparatus according to claim 6 [[42]] wherein, ~~said~~ the recording medium contains enciphered cipher key creating information obtained by enciphering the cipher key creating information for creating the cipher keys used to encipher ~~said~~ the contents information; and further comprising:

cipher key creating information ~~decoding~~ deciphering means for ~~decoding~~ deciphering ~~said~~ the enciphered cipher key creating information by means of the first cipher key; and

cipher key creating means for creating ~~said~~ the cipher key based on the cipher key creating information ~~decoded~~ deciphered by the first cipher key.

48. (Currently Amended) The information reproducing apparatus according to claim 6 [[42]] wherein, ~~said~~ the management information shows the access positions for contents information by means of the time information of the contents information and the addresses on the recording medium.

49. (Currently Amended) The information reproducing apparatus according to claim 6 [[48]] wherein, ~~said~~ the contents information is inputted by transport streams prescribed by the MPEG 2 systems; and

~~said~~ the management information shows the access positions for ~~said~~ the contents information by means of the time stamps of ~~said~~ the transport streams and the addresses on the recording medium.

50. (Currently Amended) The information reproducing apparatus according to claim 6 [[42]] wherein, as access positions described in ~~said~~ the management information, positions where random accesses are possible for ~~said~~ the contents information are extracted.

51. (Currently Amended) The information reproducing apparatus according to claim 6 [[50]] wherein, ~~said~~ the contents information is inputted by transport streams prescribed by the MPEG 2 systems ; and wherein

for access positions described in ~~said~~ the management information, transport packets each containing a sequence header code are extracted.

52. (Canceled)

53. (Currently Amended) The information recording/reproducing apparatus according to claim 11 [[52]] further comprising:

receiving means for receiving enciphered contents information and the cipher keys used to encipher ~~said~~ the contents information transmitted from other apparatuses by communication means;

cipher key enciphering means for creating enciphered cipher keys obtained by enciphering ~~said~~ the cipher keys by means of the first cipher key; and

cipher key ~~decoding~~ deciphering means for ~~decoding~~ deciphering ~~said~~ the enciphered cipher keys by means of the first cipher key, and wherein

~~said~~ the contents information ~~decoding~~ deciphering means ~~decodes~~ deciphers the enciphered contents information received by means of the cipher keys received to obtain contents information; and

~~said~~ the recording means records ~~said~~ the enciphered cipher keys on ~~said~~ the recording medium as information for enciphering ~~said~~ the contents information.

54. (Currently Amended) The information recording/reproducing apparatus according to claim 11 [[53]] further comprising:

first cipher key creating means for ~~deciding~~ choosing the first cipher key used to encipher ~~said~~ the cipher keys by means of the recording medium identification information read from ~~said~~ the recording medium.

55. (Currently Amended) The information recording/reproducing apparatus according to claim 11 [[53]] further comprising:

first cipher key creating means for ~~deciding~~ choosing the first cipher key used to encipher ~~said~~ the cipher keys;

first cipher key ~~decoding~~ deciphering means for ~~decoding~~ deciphering the first cipher key used to ~~decode~~ decipher ~~said~~ the cipher keys by means of the second cipher key; and

second cipher key creating means for ~~deciding~~ choosing the second cipher key used to encipher ~~said~~ the first cipher key by means of the recording medium identification information read from ~~said~~ the recording medium.

56. (Currently Amended) The information recording/reproducing apparatus according to claim 11 [[53]] further comprising:

second cipher key creating means for ~~deciding~~ choosing the second cipher key for ~~decoding~~ deciphering the first cipher key enciphered and read from ~~said~~ the recording medium based on the recording medium identification information read from the ~~said~~ the recording medium; and

first cipher key ~~decoding~~ deciphering means enciphered by means of the second cipher key created, and wherein

~~said~~ the cipher key enciphering means ~~decodes~~ deciphers the cipher keys received by ~~said~~ the receiving means by means of ~~said~~ the first cipher key.

57. (Currently Amended) The information recording/reproducing apparatus according to claim 11 [[52]] further comprising:

receiving means for receiving enciphered contents information and the cipher keys used to encipher ~~said~~ the contents information transmitted from other apparatuses by communication means;

cipher key creating information creating means for creating cipher key creating information used to create such cipher keys;

cipher key creating information enciphering means for creating enciphered cipher key creating information obtained by enciphering ~~said~~ the cipher key creating information created by the first cipher key, and wherein

~~said~~ the contents information ~~decoding~~ deciphering means ~~decodes~~ deciphers the enciphered contents information received by means of the cipher key received to restore contents information; and

~~said~~ the recording means records ~~said~~ the enciphered cipher key creating information on ~~said~~ the recording medium as information for enciphering ~~said~~ the contents information.

58. (Currently Amended) The information recording/reproducing apparatus according to claim 11 [[52]] wherein, ~~said~~ the management information shows the access positions for contents information by means of the time information for contents information and the addresses on the recording medium.

59. (Currently Amended) The information recording/reproducing apparatus according to claim 11 [[58]] wherein, ~~said~~ the contents information is inputted in the form of transport streams prescribed by the MPEG 2 systems; and wherein

~~said~~ the management information shows the access positions for ~~said~~ the contents information by means of the time stamps of ~~said~~ the transport streams and the addresses on the recording medium.

60. (Currently Amended) The information recording/reproducing apparatus according to claim 11 [[52]] wherein, as access positions described in ~~said~~ the management information, positions where random accesses are possible for ~~said~~ the contents information are extracted.

61. (Currently Amended) The information recording/reproducing apparatus according to claim 11 [[60]] wherein, ~~said~~ the contents information is inputted in the form of transport streams prescribed by the MPEG 2 systems; and wherein

for the access positions described in ~~said~~ the management information, transport packets each containing a sequence header code are extracted.

62. (Canceled)

63. (Currently Amended) The information recording method according to claim 16 [[62]] further comprising the steps of:

receiving enciphered contents information and cipher keys used to encipher ~~said~~ the contents information transmitted from other methods using communication means;

creating enciphered cipher keys obtained by enciphering the received cipher keys by means of the first cipher key;

~~decoding~~ deciphering the received enciphered contents information using the received cipher keys to restore contents information; and

recording ~~said~~ the enciphered cipher keys on ~~said~~ the recording medium as information for enciphering ~~said~~ the contents information.

64. (Currently Amended) The information recording method according to claim 16 [[63]] further comprising the step of:

~~deciding~~ choosing the first cipher key used to encipher ~~said~~ the cipher keys using the recording medium identification information read from ~~said~~ the recording medium.

65. (Currently Amended) The information recording method according to claim 16 [[63]] further comprising the steps of:

~~deciding~~ choosing the first cipher key used to encipher ~~said~~ the cipher keys; and

~~deciding~~ choosing the second cipher key used to encipher ~~said~~ the first cipher key using the recording medium identification information read by ~~said~~ the recording medium.

66. (Currently Amended) The information recording method according to claim 16 [[63]] further comprising the steps of:

~~deciding~~ choosing the second cipher key used to encipher the first cipher key enciphered and read from ~~said~~ the recording medium based on the recording medium identification information read from ~~said~~ the recording medium;

~~decoding~~ deciphering the first cipher key enciphered by means of ~~said~~ the created second cipher key; and

enciphering the received cipher keys using ~~said~~ the first cipher key.

67. (Currently Amended) The information recording/reproducing method according to claim 16 [[62]] further comprising the steps of:

receiving enciphered contents information and cipher keys used to encipher ~~said~~ the contents information transmitted from other methods using communication means;

creating cipher key creating information for creating these cipher keys based on the received cipher keys;

creating enciphered cipher key creating information obtained by enciphering by the first cipher key ~~said~~ the created cipher key creating information;

~~decoding~~ deciphering the enciphered contents information received using the cipher keys received to restore contents information; and

recording ~~said~~ the enciphered cipher key creating information on ~~said~~ the recording medium as information for enciphering ~~said~~ the contents information.

68. (Currently Amended) The information recording method according to claim 16 [[62]] wherein, ~~said~~ the management information shows the access positions for contents information by means of the time information for contents information and addresses on the recording medium.

69. (Currently Amended) The information recording method according to claim 16 [[68]] wherein, ~~said~~ the contents information is inputted in the form of transport streams prescribed by the MPEG 2 systems; and wherein

~~said~~ the management information shows the access positions for ~~said~~ the contents information by means of the time stamps of ~~said~~ the transport packets and addresses on the recording medium.

70. (Currently Amended) The information recording method according to claim 16 [[62]] wherein, as access positions described in ~~said~~ the management information, positions where random accesses are possible for ~~said~~ the contents information are extracted.

71. (Currently Amended) The information recording method according to claim 16 [[70]] wherein, ~~said~~ the contents information is inputted in the form of transport packets prescribed by the MPEG 2 systems; and wherein

for the access positions described in ~~said~~ the management information, transport packets each containing a sequence header code are extracted.

72. (Canceled)

73. (Currently Amended) The information reproducing method according to claim 21 [[72]] wherein, ~~said~~ the recording medium contains enciphered cipher keys obtained

by enciphering cipher keys used to encipher contents information; and further comprising the step of:

~~decoding~~ deciphering ~~said~~ the enciphered cipher keys by the first cipher key.

74. (Currently Amended) The information reproducing method according to claim 21 [[73]] further comprising the step of:

~~deciding~~ choosing the first cipher key used to ~~decode~~ decipher ~~said~~ the cipher keys by means of the recording medium identification information read from ~~said~~ the recording medium.

75. (Currently Amended) The information reproducing method according to claim 21 [[73]] further comprising the steps of:

~~decoding~~ deciphering the first cipher key used to ~~decode~~ decipher ~~said~~ the cipher keys by means of the second cipher key; and

~~deciding~~ choosing the second cipher key used to ~~decode~~ decipher ~~said~~ the first cipher key by means of the recording medium identification information read from ~~said~~ the recording medium.

76. (Currently Amended) The information reproducing method according to claim 21 [[73]] further comprising the steps of:

~~deciding~~ choosing the second cipher key for ~~decoding~~ deciphering the enciphered first cipher key read from ~~said~~ the recording medium based on the recording medium identification information read from ~~said~~ the recording medium; and

~~decoding~~ deciphering ~~said~~ the enciphered first cipher key by means of ~~said~~ the created second cipher key.

77. (Currently Amended) The information reproducing method according to claim 21 [[72]] wherein, ~~said~~ the recording medium contains enciphered cipher key creating information obtained by enciphering cipher key creating information for creating cipher keys used to encipher ~~said~~ the contents information; further comprising the steps of:

~~decoding~~ deciphering ~~said~~ the enciphered cipher key creating information by means of the first cipher key; and

creating ~~said~~ the cipher keys based on the cipher key creating information ~~decoded~~ deciphered by means of the first cipher key.

78. (Currently Amended) The information reproducing method according to claim 21 [[72]] wherein, ~~said~~ the management information shows the access positions for contents information by means of the time information for contents information and addressed on the recording medium.

79. (Currently Amended) The information reproducing method according to claim 21 [[78]] wherein, ~~said~~ the contents information is inputted in the form of transport streams prescribed by the MPEG 2 systems; and wherein

~~said~~ the management information shows the access positions for ~~said~~ the contents information by means of the time stamps of ~~said~~ the transport streams and addresses on the recording medium.

80. (Currently Amended) The information reproducing method according to claim 21 [[72]] wherein, as access positions described in ~~said~~ the management information, positions where random accesses are possible for ~~said~~ the contents information are extracted.

81. (Currently Amended) The information reproducing method according to claim 21 [[80]] wherein, ~~said~~ the contents information is inputted in the form of transport streams prescribed by the MPEG 2 systems; and wherein

for the access positions described in ~~said~~ the management information, transport packets each containing a sequence header code are extracted.

82. (Canceled)

83. (Currently Amended) An information recording/reproducing method according to claim 26 [[82]] further comprising the steps of:

during the recording process, receiving enciphered contents information and cipher keys used to encipher ~~said~~ the contents information transmitted from other methods by communication means, creating enciphered cipher keys obtained by enciphering received cipher keys by means of the first cipher key, ~~decoding~~ deciphering the enciphered contents information received by means of the received cipher keys to restore contents information and recording ~~said~~ the enciphered cipher keys are recorded on ~~said~~ the recording medium as information for enciphering ~~said~~ the contents information; and

during the reproducing process, ~~decoding~~ deciphering ~~said~~ the enciphered cipher keys by means of the first cipher key.

84. (Currently Amended) An information recording/reproducing method according to claim 26 [[83]] further comprising the step of:

~~deciding~~ choosing the first cipher key used to encipher ~~said~~ the cipher keys by means of the recording medium identification information read from ~~said~~ the recording medium.

85. (Currently Amended) An information recording/reproducing method according to claim 26 [[83]] further comprising the steps of:

~~deciding~~ choosing the first cipher key used to encipher ~~said~~ the cipher keys; and

~~deciding~~ choosing the second cipher key used to encipher ~~said~~ the first cipher key by means of the recording medium identification information read from ~~said~~ the recording medium.

86. (Currently Amended) An information recording/reproducing method according to claim 26 [[83]] further comprising the steps of:

~~deciding~~ choosing the second cipher key for ~~decoding~~ deciphering the first enciphered cipher key read from ~~said~~ the recording medium based on the recording medium identification information read from ~~said~~ the recording medium; and

~~decoding~~ deciphering the first enciphered cipher key by means of ~~said~~ the second cipher key created; and wherein

the cipher keys received are ~~decoded~~ deciphered by means of ~~said~~ the first cipher key.

87. (Currently Amended) An information recording/reproducing method according to claim 26 [[82]] further comprising the steps of:

during the recording process, receiving enciphered contents information and cipher keys used to encipher ~~said~~ the contents information transmitted from other methods by communication means, creating cipher key creating information for creating these cipher keys based on the cipher keys received, creating enciphered cipher key creating information obtained by enciphering ~~said~~ the created cipher key creating information by means of the first cipher key, ~~decoding~~ deciphering the received

enciphered contents information received by means of the cipher keys received to restore contents information, and recording ~~said~~ the enciphered cipher key creating information on ~~said~~ the recording medium as information for enciphering ~~said~~ the contents information; and

during the reproducing process, ~~decoding~~ deciphering ~~said~~ the enciphered cipher key creating information by means of the first cipher key, and creating ~~said~~ the cipher keys based on the cipher key creating information ~~decoded~~ deciphered by the first cipher key.

88. (Currently Amended) An information recording/reproducing method according to claim 26 [[82]] wherein, ~~said~~ the management information shows the access positions for contents information by means of the time information for contents information and the addresses on the recording medium.

89. (Currently Amended) An information recording/reproducing method according to claim 26 [[88]] wherein, ~~said~~ the contents information is inputted in the form of transport streams prescribed by the MPEG 2 systems; and wherein

~~said~~ the management information shows the access positions for ~~said~~ the contents information by means of the time stamps of ~~said~~ the transport streams and the addresses on the recording medium.

90. (Currently Amended) An information recording/reproducing method according to claim 26 [[82]] wherein, as access positions described in ~~said~~ the management information, positions where random accesses are possible for ~~said~~ the contents information are extracted.

91. (Currently Amended) An information recording/reproducing method according to claim 26 [[90]] wherein, ~~said~~ the contents information is inputted in the form of transport packets prescribed by the MPEG 2 systems; and wherein

for the access positions described in ~~said~~ the management information, transport packets each containing a sequence header code are extracted.

92. (Currently Amended) A recording medium wherein the following are recorded: [[,]]

enciphered contents information,

information for enciphering ~~said~~ the contents information, and

processor readable management information that includes instructions for causing the computer processor to access positions on the recording medium. ~~extracted from said contents information and showing one or more access positions for said contents information are recorded.~~